OIPE JC17
JUN 23 2004
PATENT & TRADEMARK OFFICE

Fig.1

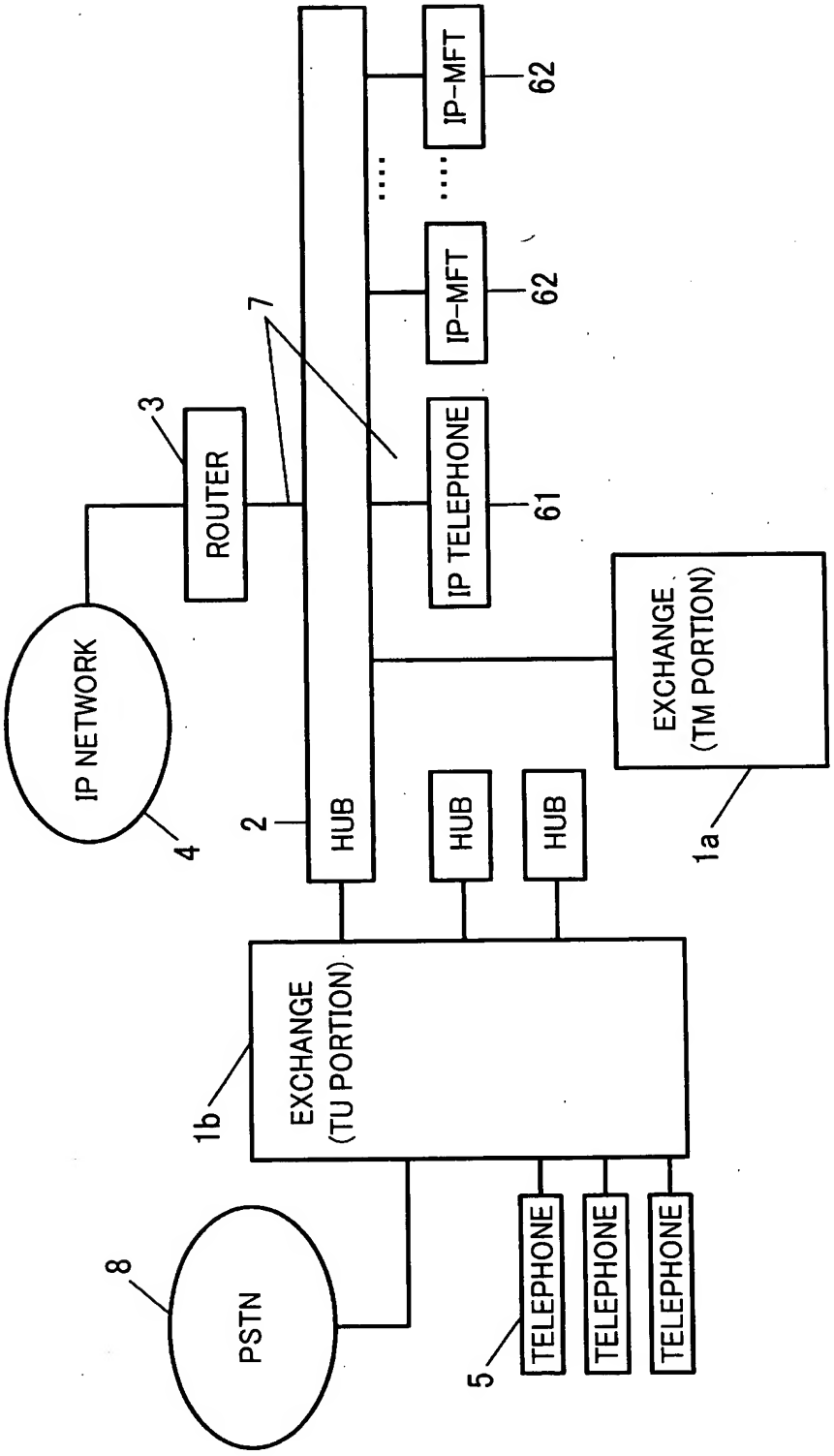
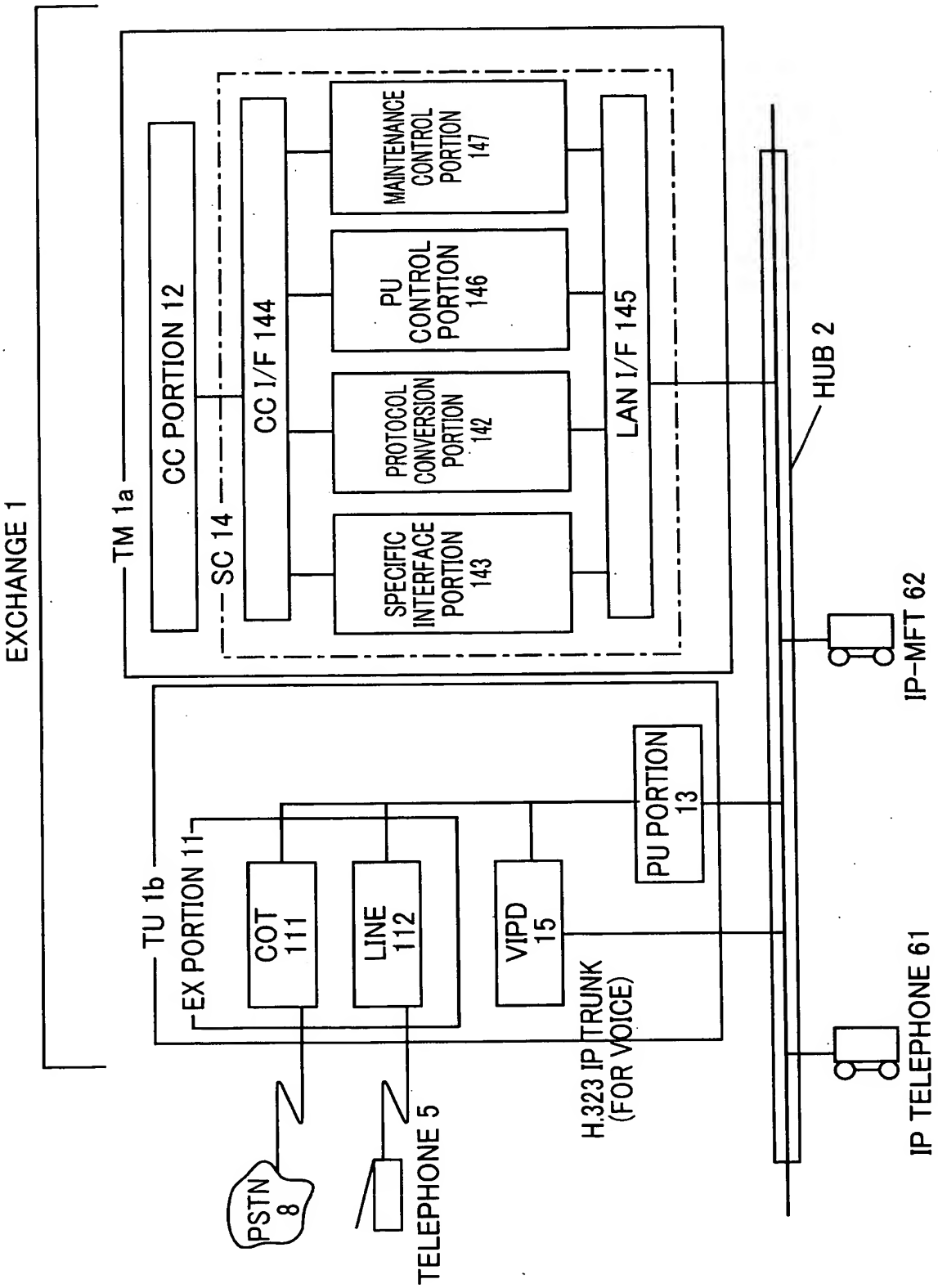


Fig.2


EXCHANGE 1
TM 1a
CC PORTION 12
SC 14
CC I/F 144
MAINTENANCE CONTROL PORTION 147
PU CONTROL PORTION 146
PROTOCOL CONVERSION PORTION 142
SPECIFIC INTERFACE PORTION 143
LAN I/F 145
HUB 2
IP-MFT 62
PU PORTION 13
TU 1b
EX PORTION 11
COT 111
LINE 112
VIPD 15
H.323 IP TRUNK (FOR VOICE)
IP TELEPHONE 61
PSTN 8
TELEPHONE 5

No.7 MESSAGE TABLE

	EXPLANATION	MSG	EXPLANATION	MSG
120	ADDRESS SIGNAL WITH ADDITIONAL INFORMATION	IAI	LINK RECONNECT SIGNAL	LCM
121	ADDRESS COMPLETION SIGNAL WITH ADDITIONAL INFORMATION	ACI	TRANSFER SIGNAL	TRM
122	ANSWER SIGNAL WITH ADDITIONAL INFORMATION	AND	INCOMPLETION NOTIFICATION SIGNAL	EUM
123	DISCONNECT SIGNAL	CLF	FORWARD TRANSFER SIGNAL	FOT
124	RECOVERY COMPLETION SIGNAL	RLG	CHANNEL GROUP CONGESTION SIGNAL	CGC
125	SUBSCRIBER BUSY SIGNAL	SSB	CHANNEL FAILURE SIGNAL	CFL
	CLEARING SIGNAL	CBK	ACCOUNTING INFORMATION CONTROL SIGNAL	ESM
	CHANNEL RESET SIGNAL	RSC	BLOCKING SIGNAL	BLO
	SERVICE SET-UP SIGNAL	SSM	BLOCKING CONFIRMATION SIGNAL	BLA
	SERVICE STATUS CHECK SIGNAL	SSC	UNBLOCKING SIGNAL	UBL
	SERVICE CONTROL SIGNAL	SVC	UNBLOCKING CONFIRMATION SIGNAL	UBA
	ADDRESS SIGNAL	AIM		
	ADDRESS COMPLETION SIGNAL	ACM		
	REPEATER STAND FREE LINE MONITORING CONNECTION SIGNAL	ACP		
	BACKWARD SERVICE STATUS CHECK SIGNAL	BSM		
	ACCOUNTING INFORMATION CONTROL SIGNAL	ESM		
	INTER-NODE ADDRESS SIGNAL	NIA		

Fig.3

Title: EXCHANGE EQUIPMENT
Inventor(s): Toru YOSHIHARA et al.
Appl. No.: 10/762,577
REPLACEMENT SHEET

H.323 (H.225) MESSAGE TABLE

	CALL SET-UP MESSAGES		OTHER MESSAGES	
130	CALLING	Alerting	CONGESTION CONTROL	Congestion
131	CALL SET-UP RECEPTION	Call	ADDITIONAL INFORMATION	Information
132	ANSWER	Connect	NOTIFICATION	Notify
133	ANSWER CONFIRMATION	Connect	STATUS DISPLAY	Status
134	PROGRESS DISPLAY	Progress	STATUS INQUIRY	Status
135	CALL SET-UP	Setup	JT-Q932/JT-H450 MESSAGES	
136	CALL SET-UP CONFIRMATION	Setup	FACILITY	facility
	CALL END MESSAGES		HOLD	Hold
137	DISCONNECTION	Disc	HOLD CONFIRMATION	Hold
138	RELEASE	Rel comp	HOLD REJECT	Hold Reject
139	RELEASE COMPLETION	Rel comp	HOLD RELEASE	Retrieve
	CALL INFORMATION PHASE MESSAGES		HOLD RELEASE CONFIRMATION	Retrieve
	RESUME	Resume	HOLD RELEASE REJECT	Retrieve
	RESUME CONFIRMATION	Resume		
	RESUME REJECT	Resume		
	SUSPEND	Suspend		
	SUSPEND CONFIRMATION	Suspend		
	SUSPEND REJECT	Suspend		
	USER INFORMATION	User		

Fig.4

Title: EXCHANGE EQUIPMENT
Inventor(s): Toru YOSHIHARA et al.
Appl. No.: 10/762,577
REPLACEMENT SHEET

No.7/H.323 CONVERSION MESSAGE CORRESPONDENCE TABLE

	No.7 MESSAGES			H.323 MESSAGES	
				H.225	
	MSG	EXPLANATION	DIRECTION	MSG	EXPLANATION
140	IAI	ADDRESS SIGNAL WITH ADDITIONAL INFORMATION	⇔	Setup	CALL SET-UP
141	ACI	ADDRESS COMPLETION SIGNAL WITH ADDITIONAL INFORMATION	⇔	Alerting	CALLING
142	AND	ANSWER SIGNAL WITH ADDITIONAL INFORMATION	⇔	Connect	ANSWER
	SSB	SUBSCRIBER BUSY SIGNAL	⇔	Rel comp	RELEASE COMPLETION
	CLF	DISCONNECT SIGNAL	⇔	Rel comp	RELEASE COMPLETION
	RLG	RECOVERY COMPLETION SIGNAL	⇔	Rel comp	RELEASE COMPLETION
	CBK	CLEARING SIGNAL		Rel comp	DISCONNECT-RELATED SIGNAL
	RSC	CHANNEL RESET SIGNAL		Rel comp	DISCONNECT-RELATED SIGNAL
	SSM	SERVICE SET-UP SIGNAL		—	ADDITIONAL SERVICE-RELATED SIGNAL
	SSC	SERVICE STATUS CHECK SIGNAL		—	ADDITIONAL SERVICE-RELATED SIGNAL
	SVC	SERVICE CONTROL SIGNAL		—	ADDITIONAL SERVICE-RELATED SIGNAL
	LCM	LINK RECONNECT SIGNAL		—	ADDITIONAL SERVICE-RELATED SIGNAL
	TRM	TRANSFER SIGNAL		—	ADDITIONAL SERVICE-RELATED SIGNAL
	EUM	INCOMPLETION NOTIFICATION SIGNAL		Rel comp	ADDITIONAL SERVICE-RELATED SIGNAL
	FOT	FORWARD TRANSFER SIGNAL		—	ADDITIONAL SERVICE-RELATED SIGNAL
	CGC	CHANNEL GROUP CONGESTION SIGNAL		—	ADDITIONAL SERVICE-RELATED SIGNAL
	CFL	CHANNEL FAILURE SIGNAL		—	ADDITIONAL SERVICE-RELATED SIGNAL
	BLO	BLOCKING SIGNAL		—	ADDITIONAL SERVICE-RELATED SIGNAL
	BLA	BLOCKING CONFIRMATION SIGNAL		—	ADDITIONAL SERVICE-RELATED SIGNAL
					ADDITIONAL SERVICE-RELATED SIGNAL

Fig.5

Title: EXCHANGE EQUIPMENT
Inventor(s): Toru YOSHIHARA et al.
Appl. No.: 10/762,577
REPLACEMENT SHEET

Fig.6

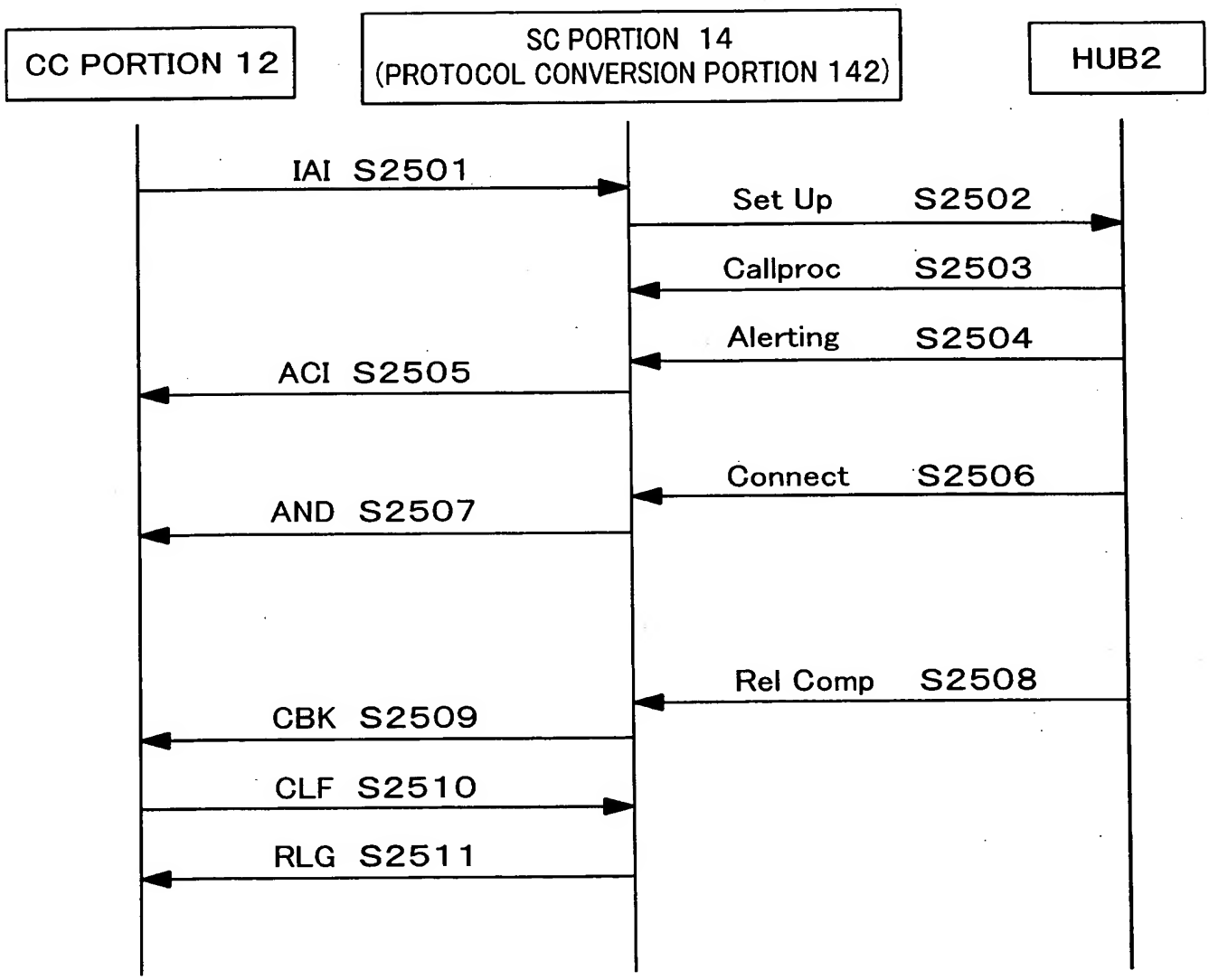

CC PORTION 12
SC PORTION 14
(PROTOCOL CONVERSION PORTION 142)
HUB2
IAI S2501
Set Up S2502
Callproc S2503
Alerting S2504
ACI S2505
Connect S2506
AND S2507
Rel Comp S2508
CBK S2509
CLF S2510
RLG S2511

Fig.7

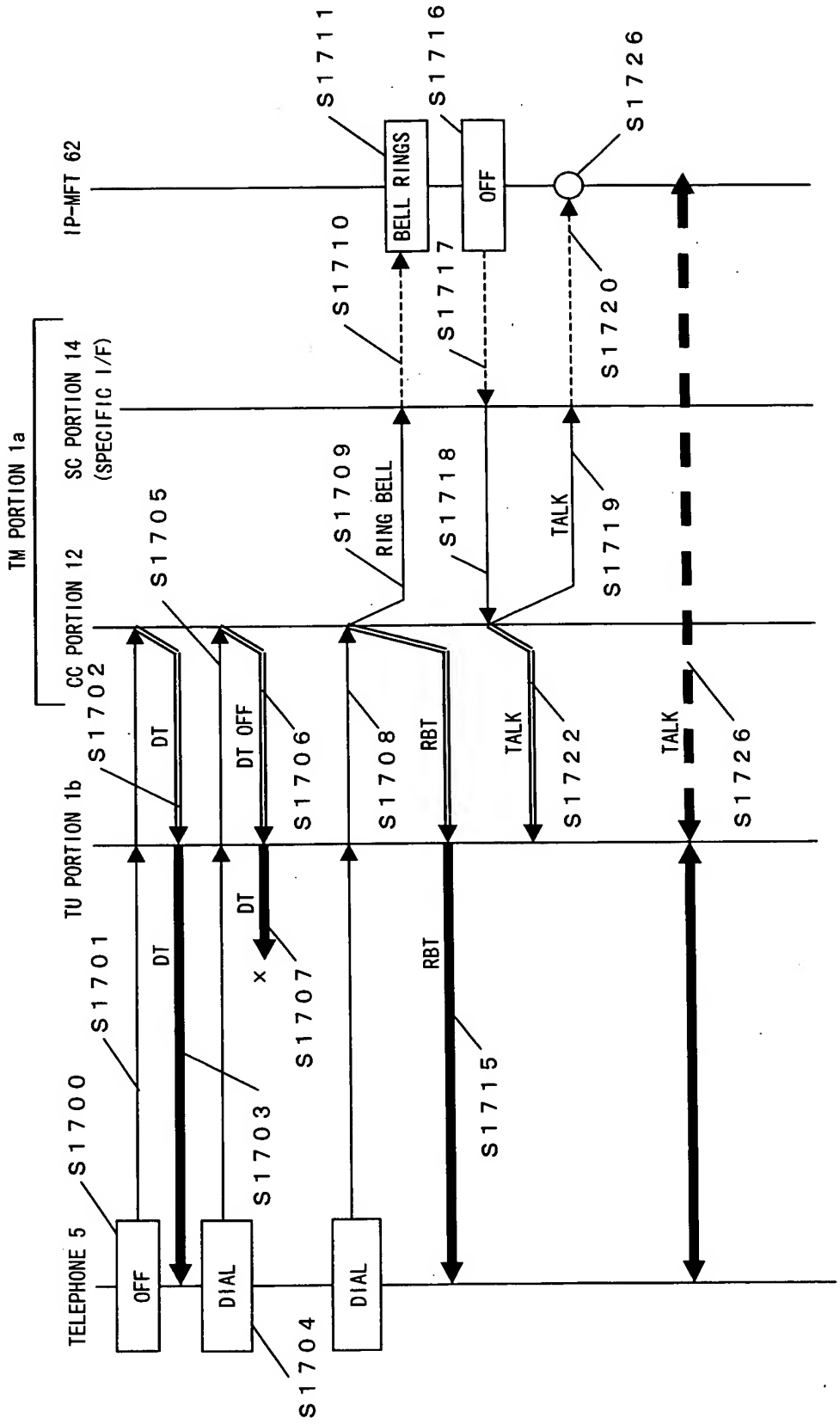

TELEPHONE 5
IP-MFT 62
TM PORTION 1a
SC PORTION 14 (SPECIFIC I/F)
CC PORTION 12
TU PORTION 1b
S1700
S1701
S1702
S1703
S1704
S1705
S1706
S1707
S1708
S1709
S1710
S1711
S1715
S1716
S1717
S1718
S1719
S1720
S1722
S1726
OFF
DIAL
DIAL
DT
DT
DT OFF
DT
RBT
RBT
RING BELL
BELL RINGS
OFF
TALK
TALK
TALK
×

Fig.8

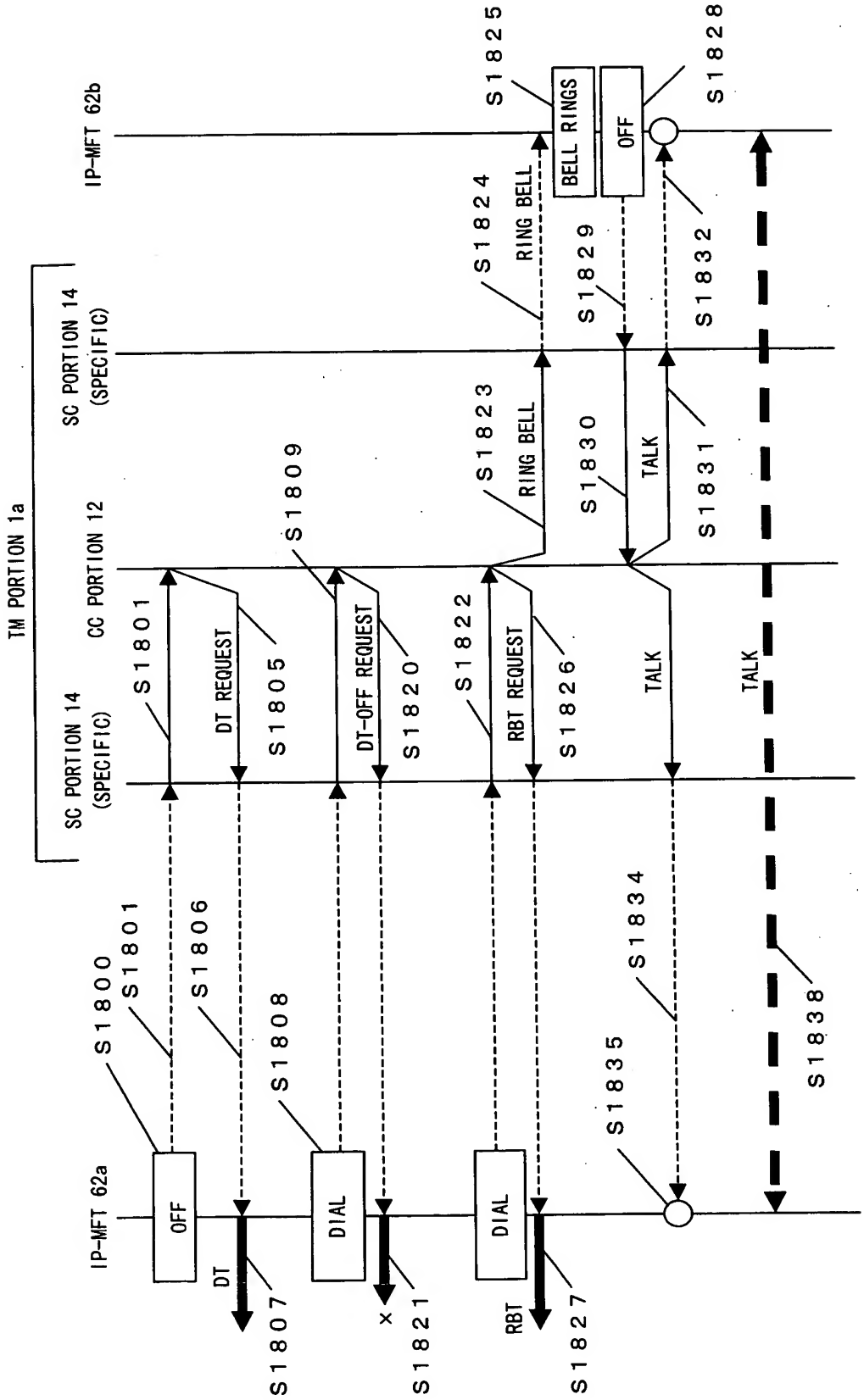

TM PORTION 1a
SC PORTION 14 (SPECIFIC)
CC PORTION 12
SC PORTION 14 (SPECIFIC)
IP-MFT 62b
IP-MFT 62a
S1800
S1801
S1801
S1806
S1808
S1807
S1809
S1805
DT REQUEST
DT
S1820
DT-OFF REQUEST
S1821
S1822
S1823
RING BELL
RING BELL
S1824
S1825
BELL RINGS
S1826
RBT REQUEST
RBT
S1827
S1828
OFF
S1829
S1830
TALK
TALK
S1831
S1832
S1834
S1835
TALK
S1838
OFF
DIAL
DIAL

Fig.9

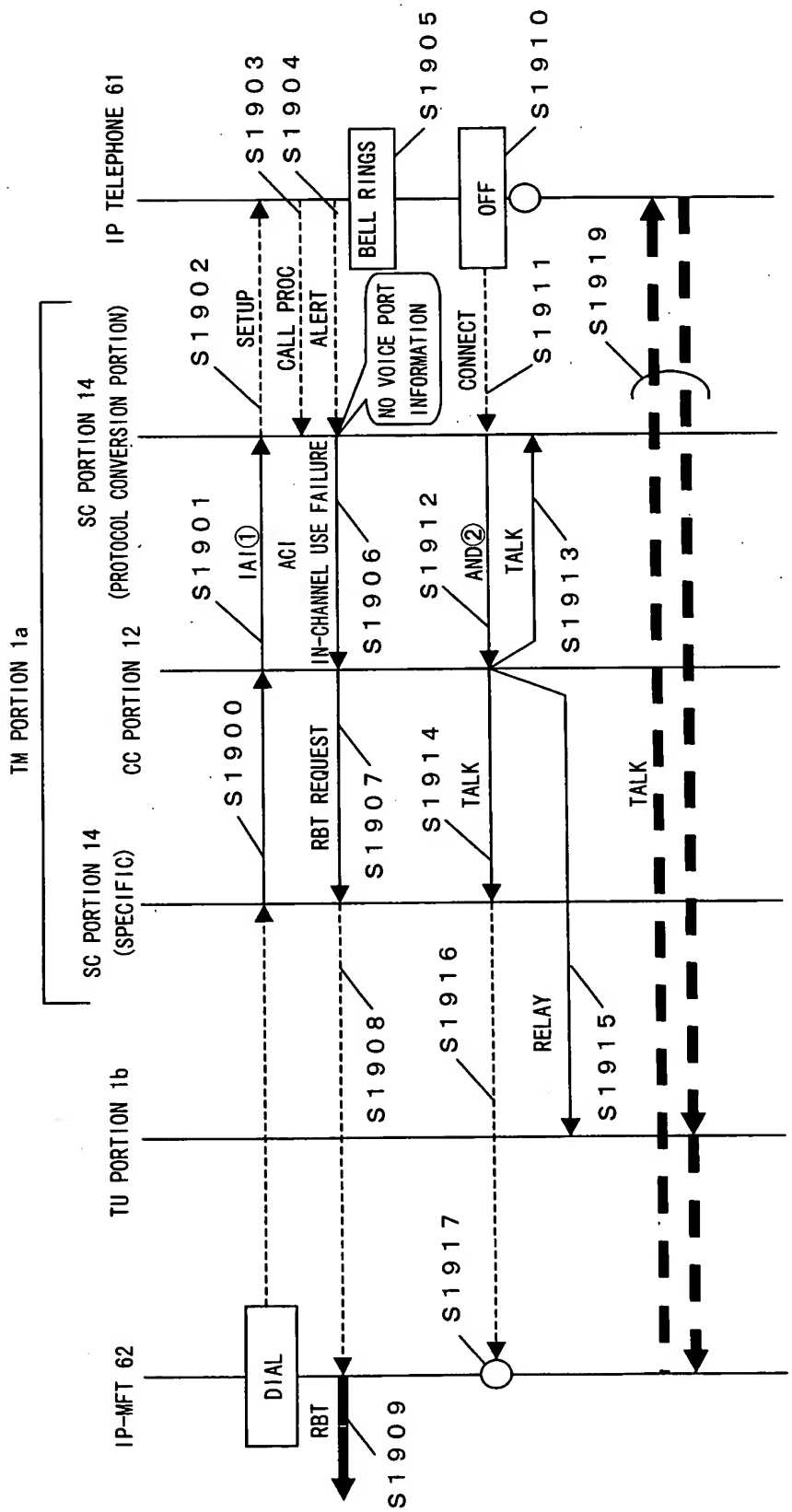
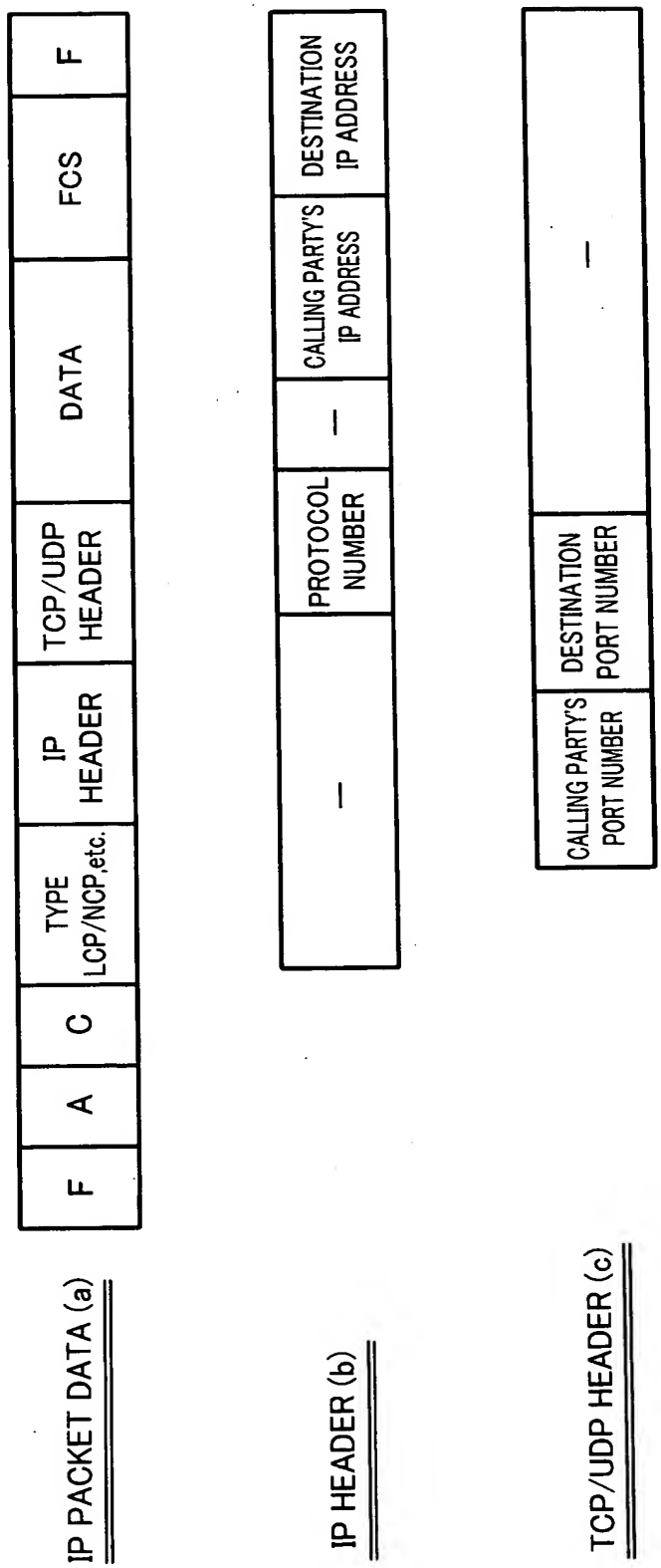

TM PORTION 1a
SC PORTION 14 (SPECIFIC)
TU PORTION 1b
IP-MFT 62
CC PORTION 12
SC PORTION 14 (PROTOCOL CONVERSION PORTION)
IP TELEPHONE 61
S1900
S1901
IAI①
S1902
SETUP
S1903
CALL PROC
S1904
ALERT
S1905
BELL RINGS
S1906
ACI
IN-CHANNEL USE FAILURE
NO VOICE PORT INFORMATION
S1907
RBT REQUEST
S1908
DIAL
S1909
RBT
S1910
OFF
S1911
CONNECT
S1912
AND②
S1913
TALK
S1914
TALK
S1915
RELAY
S1916
S1917
S1919
TALK

Fig.10


F
A
C
TYPE
LCP/NCP,etc.
IP
HEADER
TCP/UDP
HEADER
DATA
FCS
F
IP PACKET DATA (a)
—
PROTOCOL
NUMBER
—
CALLING PARTY'S
IP ADDRESS
DESTINATION
IP ADDRESS
IP HEADER (b)
CALLING PARTY'S
PORT NUMBER
DESTINATION
PORT NUMBER
—
TCP/UDP HEADER (c)